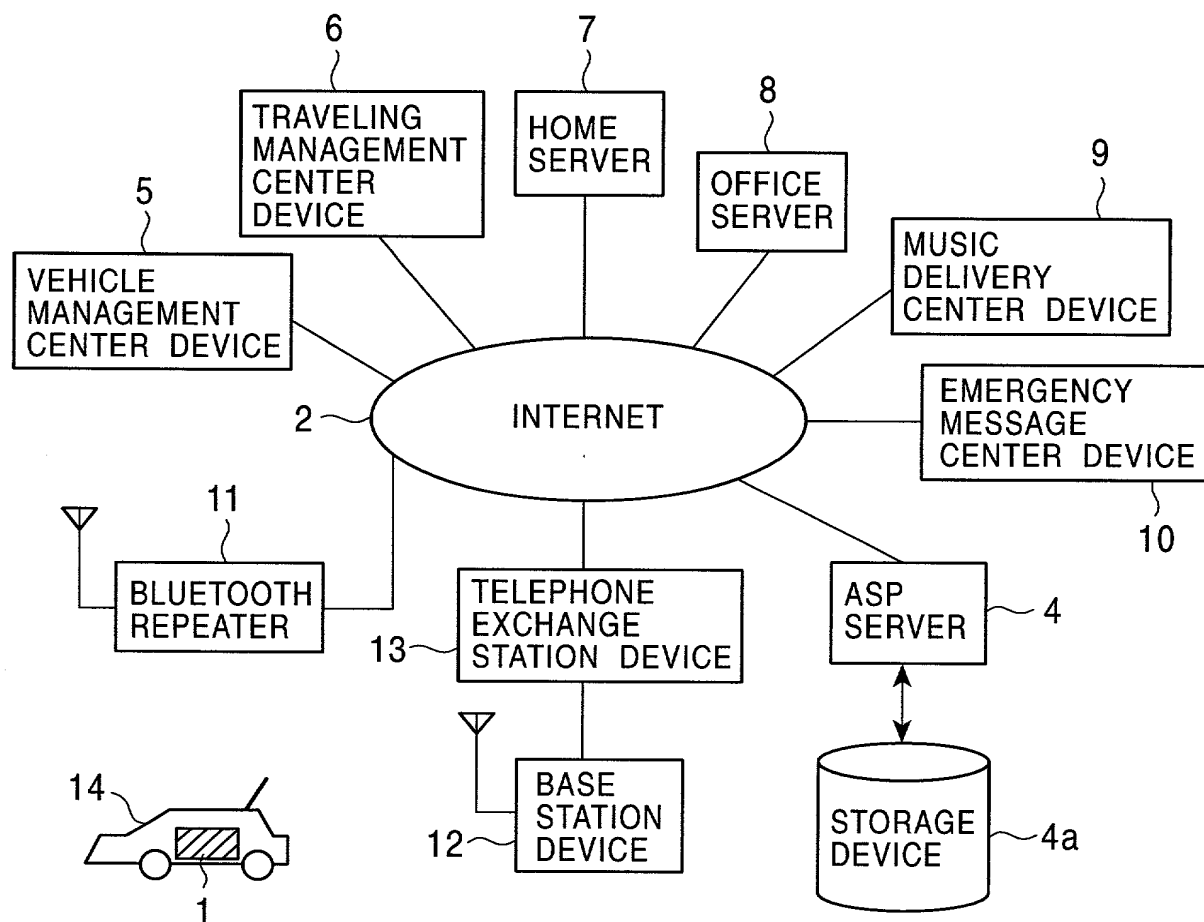


FIG. 1



09961282-13104
FIG. 1

FIG. 2

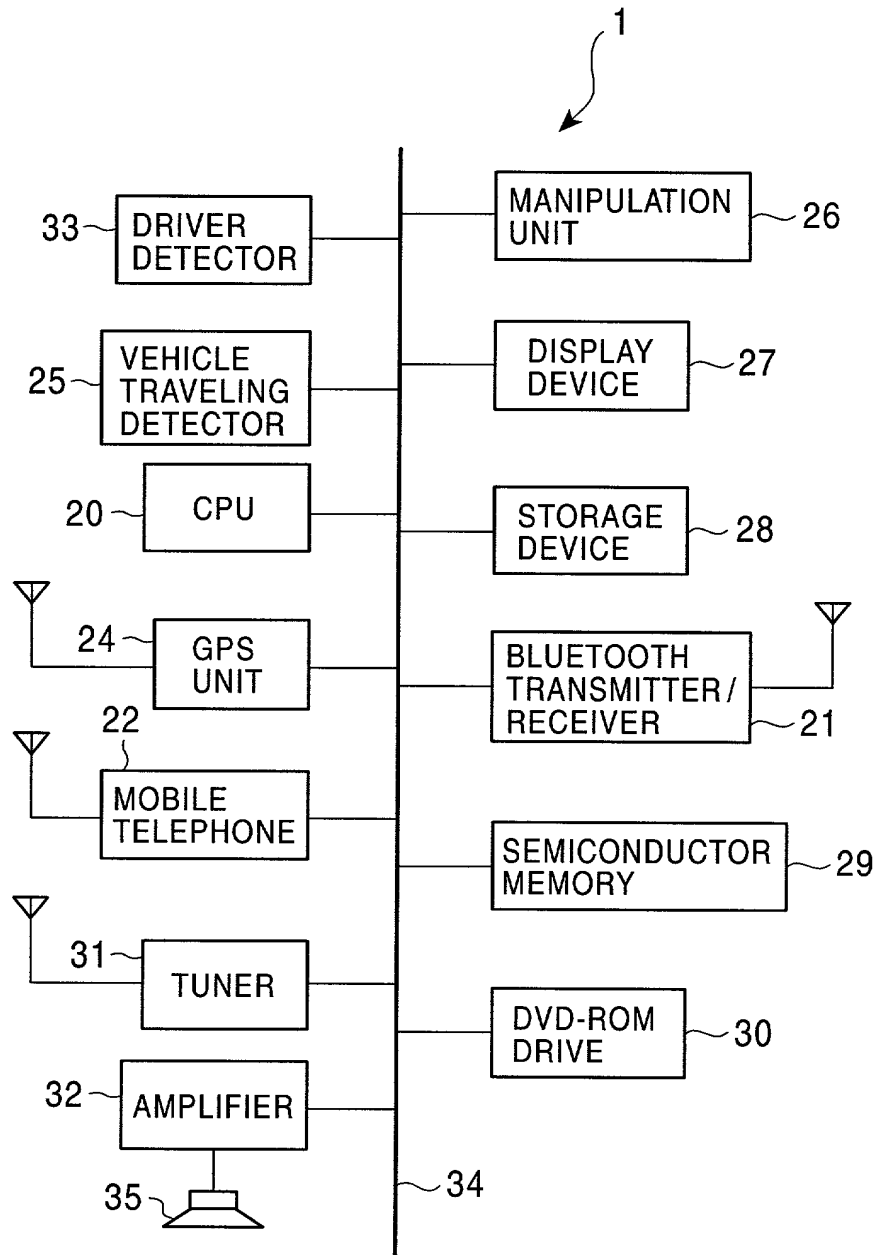


FIG. 3

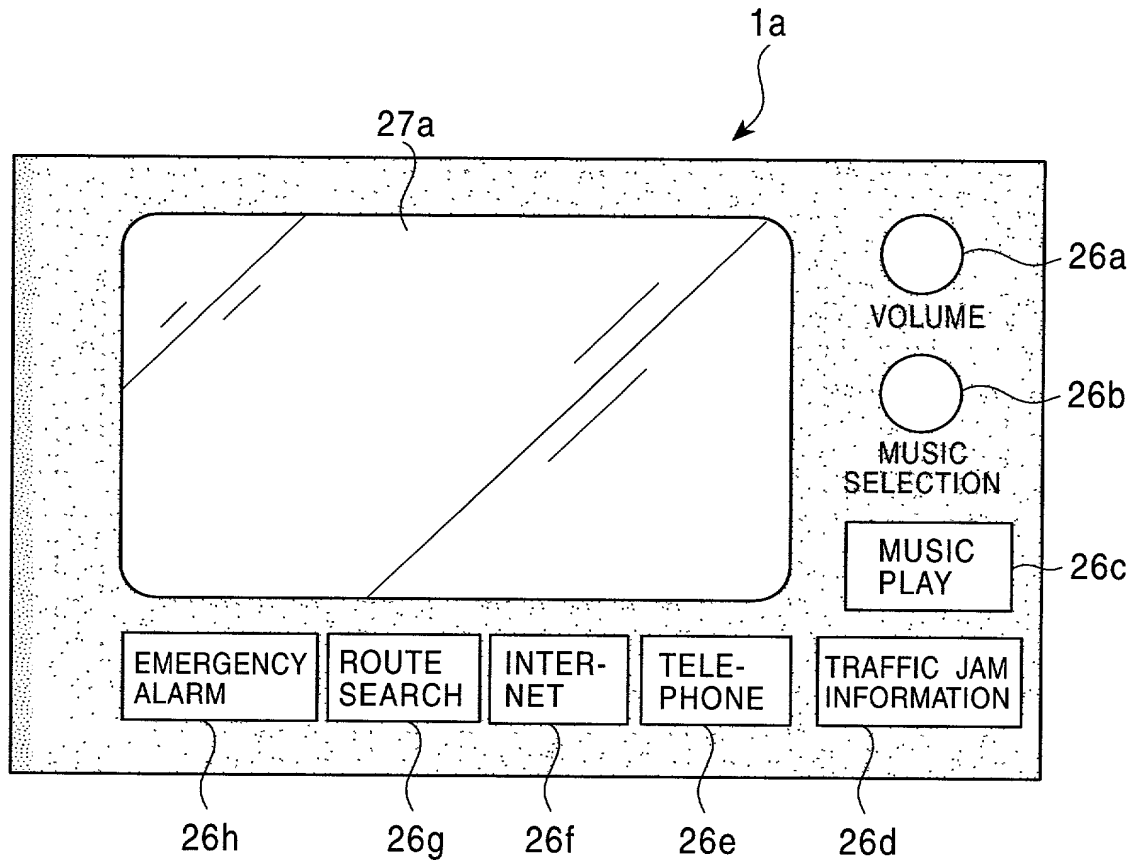


FIG. 4A

MUSIC PLAY

INTERNET RADIO
MP3 DATA
GROUND WAVE

RETURN

FIG. 4B

TRAFFIC JAM
INFORMATION

RADIO
INTERNET
VICS
PREDICTION FROM PAST DATA
ATIS
SPEEDWAY PUBLIC CORPORA-
TION GUIDE

RETURN

FIG. 4C

TELEPHONE

CONTACT ADDRESS LIST

RETURN

FIG. 4D

ROUTE SEARCH

DEPARTURE
DESTINATION
DATE AND TIME
LOCATION
CONDITION
PAST RECORD

RETURN

FIG. 4E

EMERGENCY ALARM

ACCESS POINT
EMERGENCY CENTER
AMBULANCE
POLICE
INSURANCE COMPANY
REPAIR SHOP

RETURN

FIG. 5A

CAR PROFILE DATABASE

USER

PASSWORD

FIG. 5B

CAR PROFILE DATABASE

APPLICATION DATABASE
USER SETTING
UPDATE DATA

FIG. 5C

APPLICATION

TRAVELING MANAGEMENT
EMERGENCY ALARM
MUSIC DELIVERY
ANTI-THEFT
VEHICLE MANAGEMENT
PUBLIC TELEPHONE
ROUTE SEARCH
MAIL

FIG. 5D

DATA BASE

VEHICLE DATA
TRAVELING DATA
DRIVER DATA
MUSIC DATA
ADDRESS BOOK
MAP DATA

FIG. 5E

USER SETTING

SET ACCESS RIGHT
ADD NEW USER
CHANGE USER DATA
SET ACCESS POINT

FIG. 5F

UPDATE DATA

UNCONDITIONAL UPDATE
(DATA MOVE)
CONDITIONAL UPDATE
(DESTINATION)
CONDITIONAL UPDATE
(COMMUNICATION CONDITION)
ERASE (FORMAT)

FIG. 6A

TRAVELING MANAGEMENT

MAP

RETURN

FIG. 6B

EMERGENCY ALARM

SERVICE CENTER
COMMUNICATION
MAIL TRANSMISSION ADDRESS
SENT DATA :
VEHICLE, DRIVER DATA

RETURN

FIG. 6C

MUSIC DELIVERY
INTERNET RADIO

CH	URL
1	*****
2	*****
3	*****
4	*****

PROGRAM RESER-
VATION
DATE AND TIME

URL
* * * * *

RETURN

FIG. 6D

ANTI-THEFT

CABIN TROUBLE SENSOR
TRAVELING REGION
USED TIME
DRIVER
CONTACT ADDRESS
SENT DATA :
VEHICLE, CURRENT POSITION,
ROUTE

RETURN

FIG. 6E

VEHICLE MANAGEMENT	
GAS SUPPLY	
DATE AND TIME, OIL SUPPLY,	
LOCATION, FUEL EFFICIENCY	
OIL EXCHANGE	
PARTS	
CHECK (MAINTENANCE INFORMATION)	
<input type="button" value="START ENGINE"/>	
<input type="button" value="START AIR
CONDITIONER"/>	<input type="button" value="RETURN"/>

FIG. 6F

ROUTE SEARCH	
DEPARTURE	<input type="button" value="MAP"/>
DESTINATION	
DATE AND TIME	
LOCATION	
CONDITION	
PAST INFORMATION	
<input type="button" value="SEND RESULT
TO VEHICLE"/>	<input type="button" value="RETURN"/>

FIG. 6G

MAIL	
NAME	ADDRESS
****	*****
****	*****
****	*****
****	*****
<input type="button" value="RETURN"/>	

FIG. 6H

PUBLIC TELEPHONE	
NAME	TELEPHONE
****	*****
****	*****
****	*****
****	*****
<input type="button" value="RETURN"/>	

FIG. 7A

VEHICLE DATA	
BODY NUMBER	
COLOR	
MODEL	
OWNER	
MAINTENANCE INFORMATION	
RETURN	

FIG. 7B

TRAVELING DATA				
CURRENT POSITION				
EAST LONGITUDE *****				
NORTH LATITUDE *****				
DATE AND TIME	TIME	LOCA- TION	SPEED	CONDI- TION
**	**	**	**	**
**	**	**	**	**
RETURN				

FIG. 7C

DRIVER DATA	
NAME	
BLOOD TYPE	
SEX	
AGE	
HEIGHT	
WEIGHT	
COMMUNICATION	
RETURN	

FIG. 7D

MUSIC DATA		
NO.	TITLE	DURATION
1	*****	****
2	*****	****
3	*****	****
4	*****	****
5	*****	****
6	*****	****
DOWNLOAD		
UPLOAD		
RETURN		

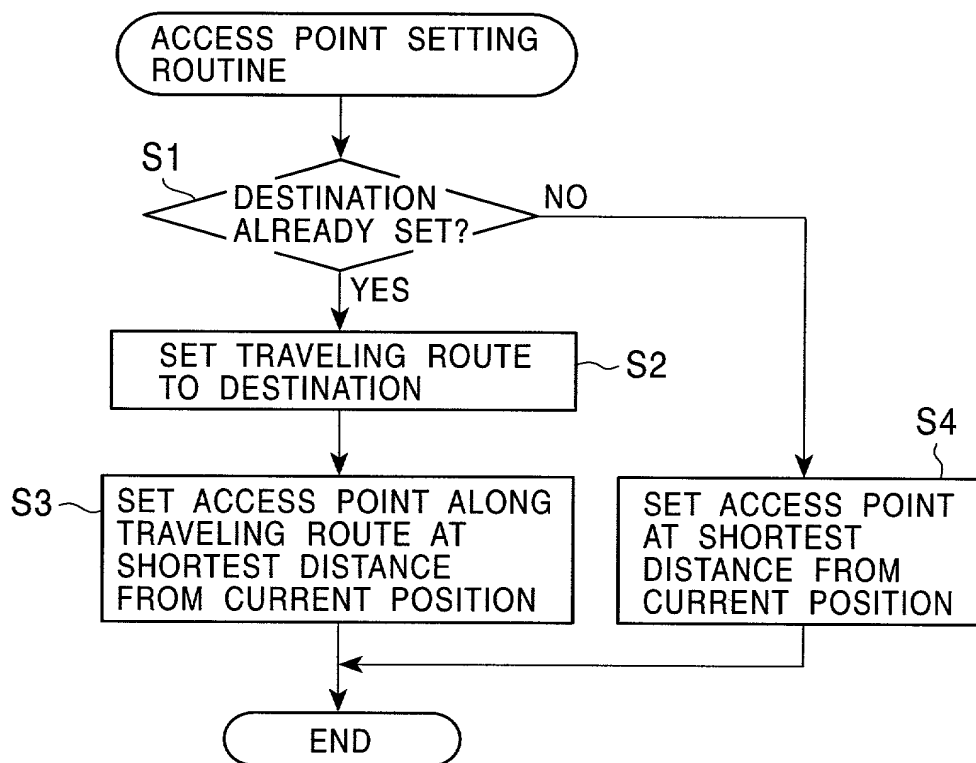
FIG. 7E

MAP DATA	
MAP NAME	UPDATED DATE
SOUTH KANTO REGION	**, **
NORTH KANTO REGION	**, **
TOKYO METROPOLITAN	**, **
KAWASAKI CITY	**, **
SAITAMA PREFECTURE	**, **
NIIGATA PREFECTURE	**, **
RETURN	

FIG. 7F

ADDRESS BOOK		
NAME	TELEPHONE	ADDRESS
**	**	****
**	**	****
**	**	****
RETURN		

FIG. 8



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FIG. 9

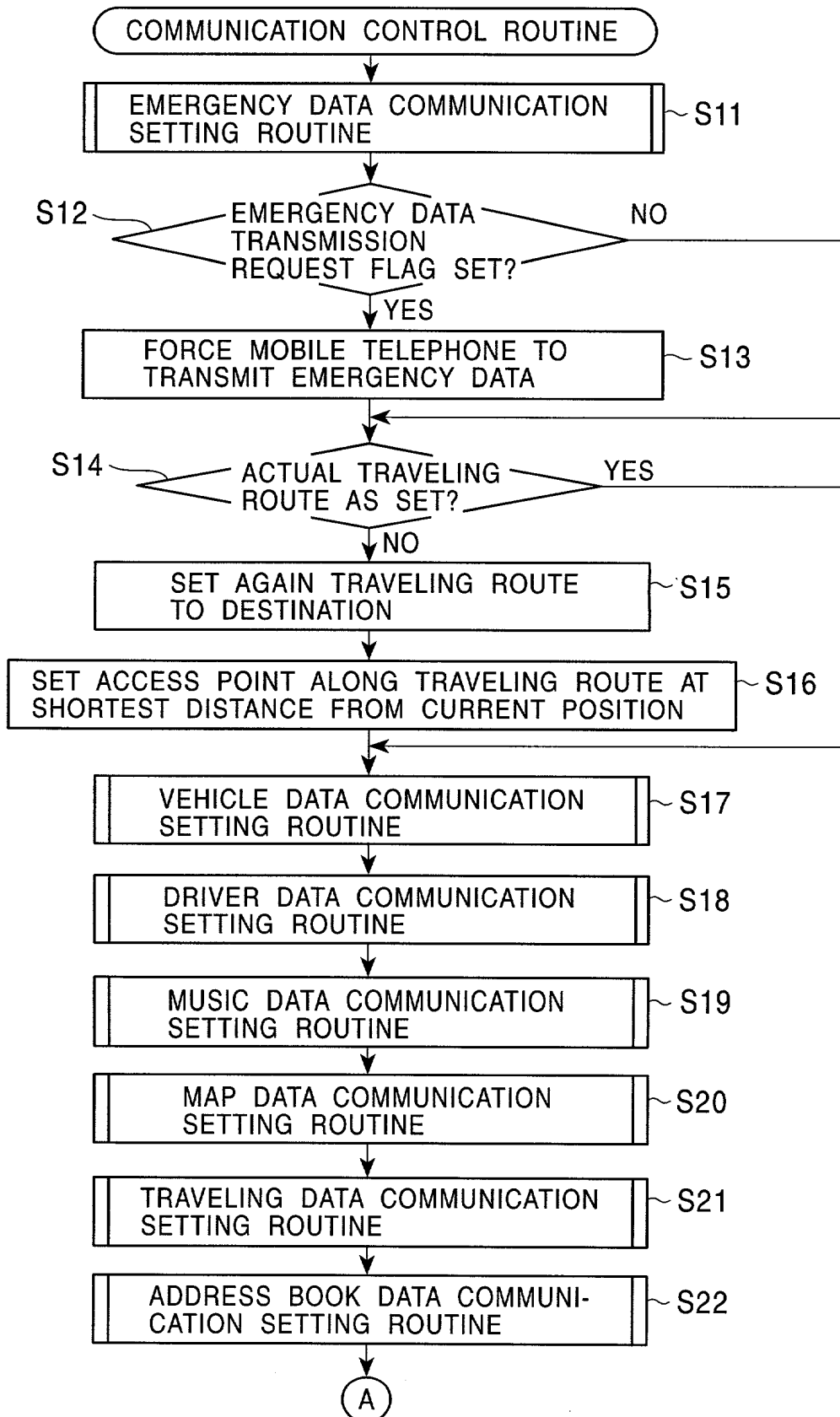


FIG. 10

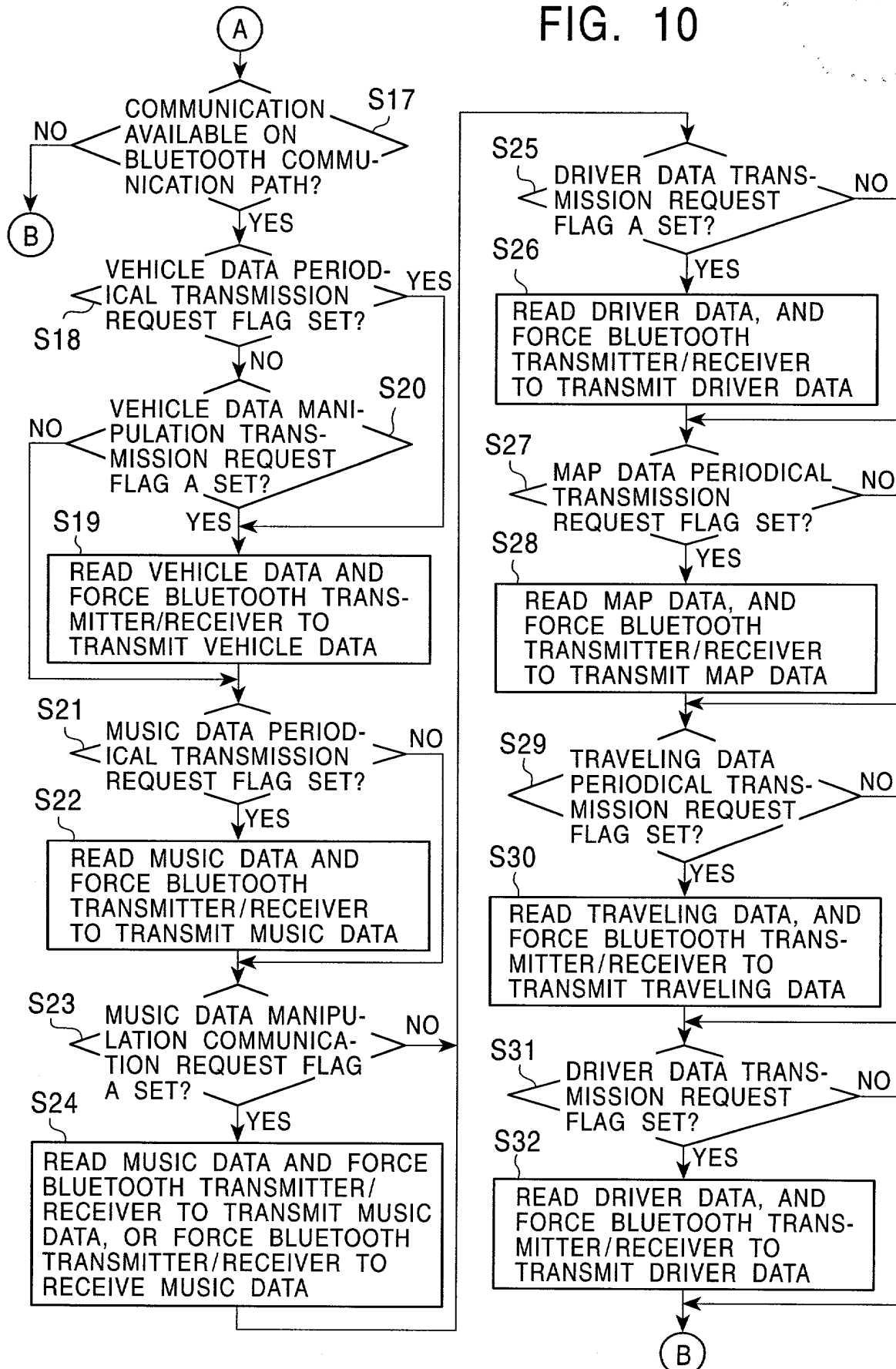


FIG. 11

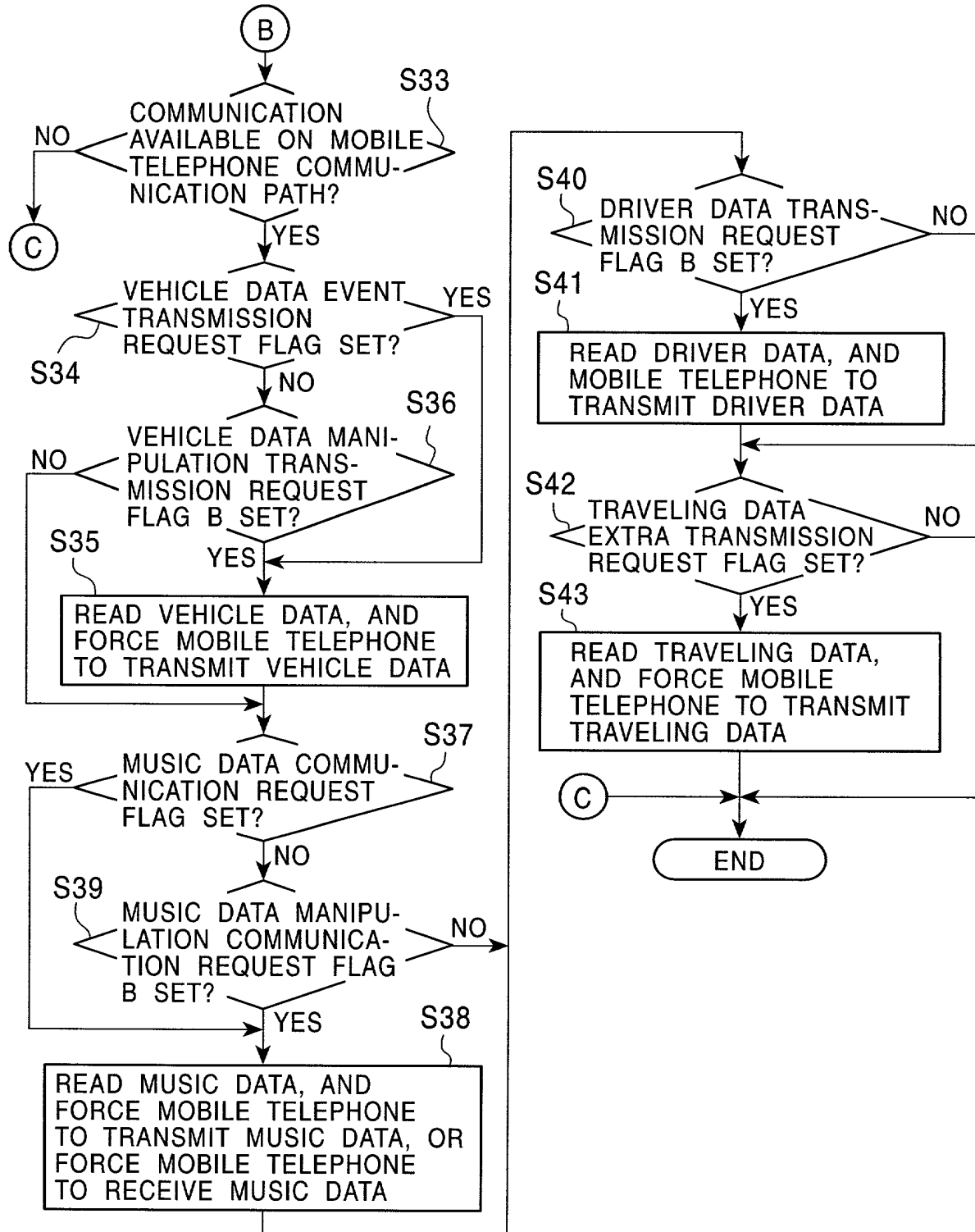


FIG. 12

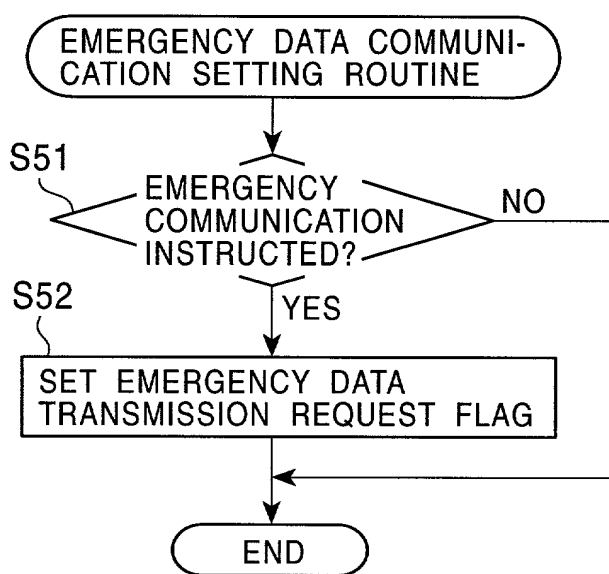
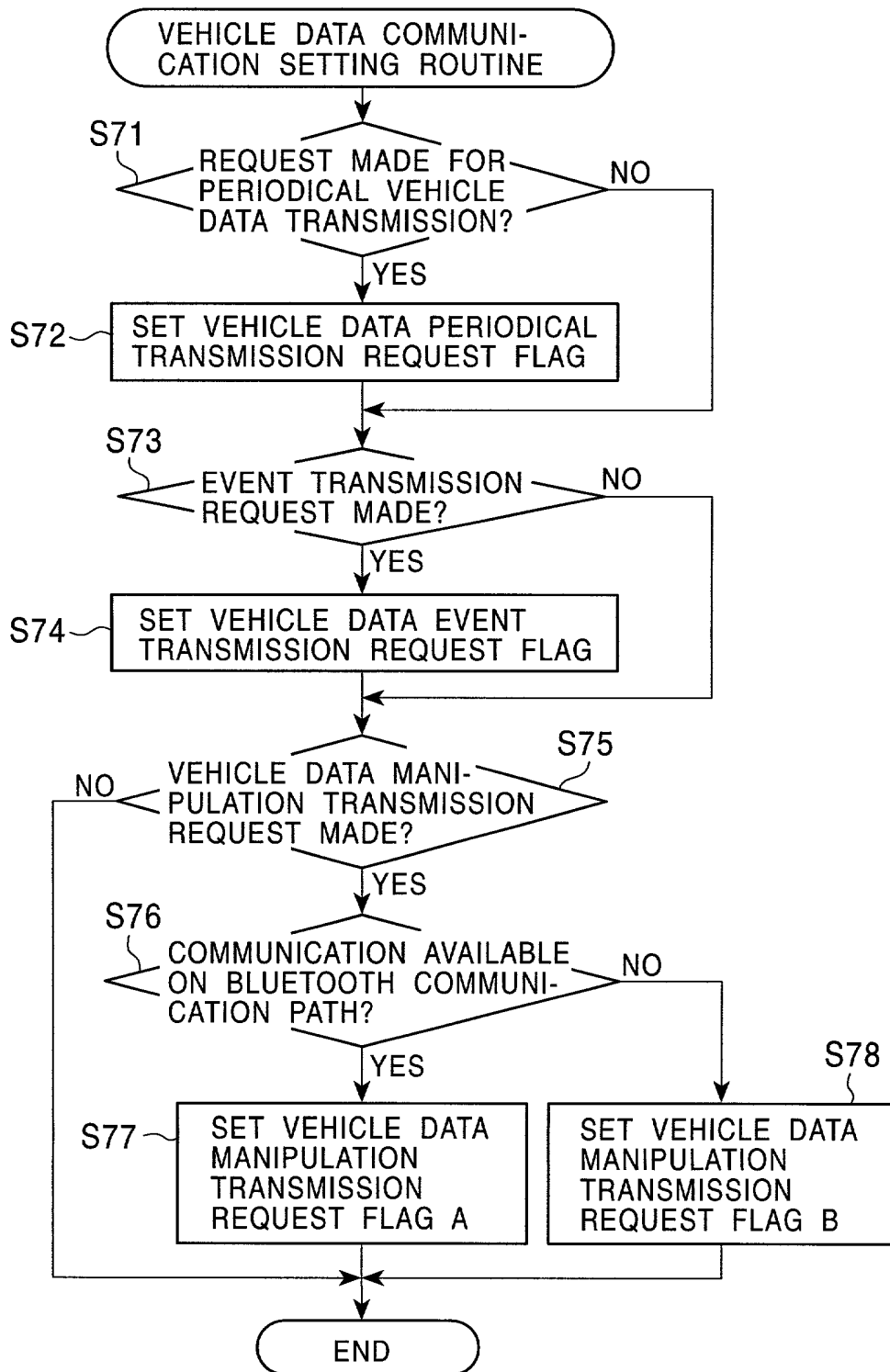


FIG. 13



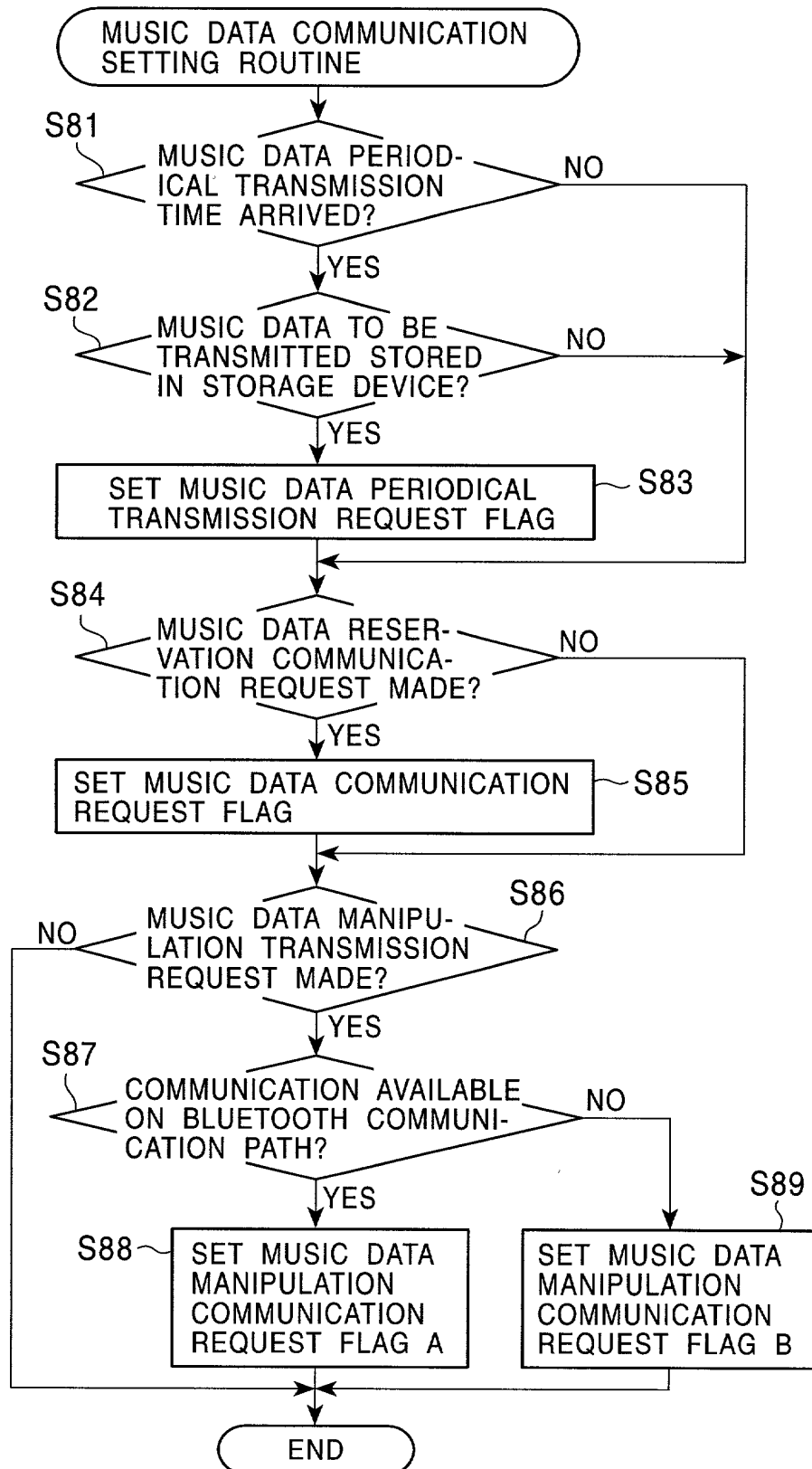
09961282 2001 09 25

FIG. 14

TYPE	UPDATE CYCLE	PRECEDING UPDATE DATE AND TIME
VEHICLE DATA	ONE WEEK	XXXX : YY : ZZ 12:10
DRIVER DATA	START OF VEHICLE	XXXX : YY : ZZ 11:03
MUSIC DATA	TWICE A DAY	XXXX : YY : ZZ 12:00
MAP DATA	ONCE A MONTH	XXXX : YY : ZZ 09:45
TRAVELING DATA	EVERY 10 MINUTES	XXXX : YY : ZZ 12:50
ADDRESS BOOK DATA	ONCE A DAY	XXXX : YY : ZZ 10:10
EMERGENCY DATA	OCCURRENCE OF EMERGENCY	XXXX : AY : GH 17:30

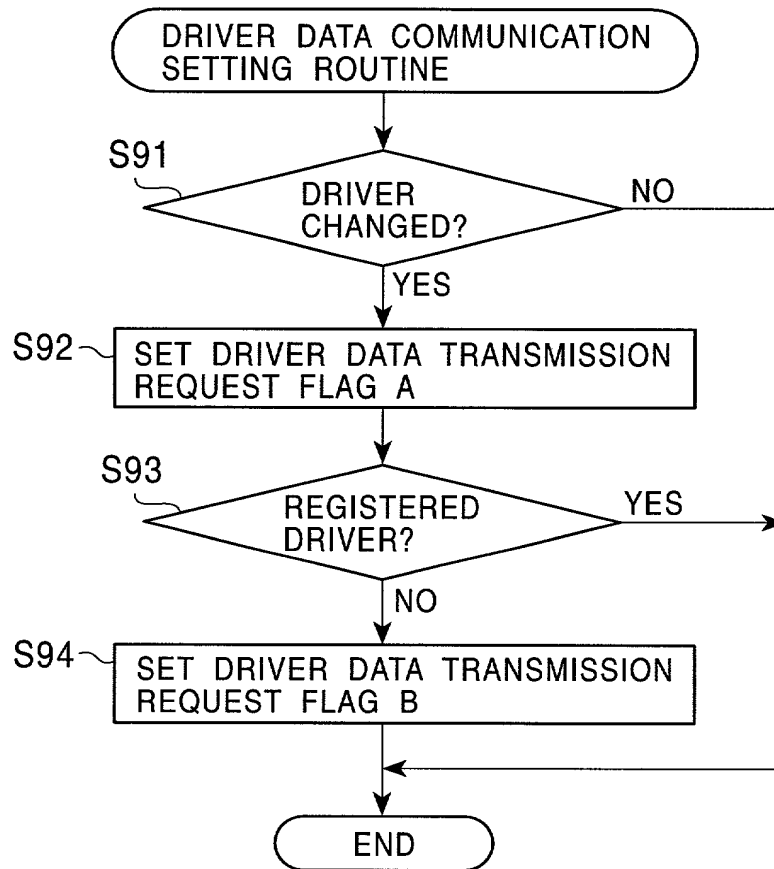
0961282-101

FIG. 15



09961282.123101

FIG. 16



0961282 123101 10/12/01 12:31:01

FIG. 17

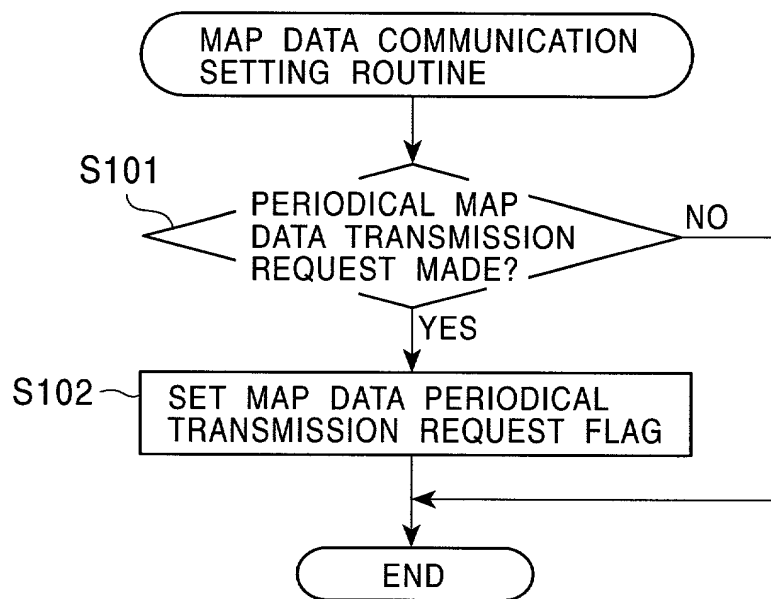
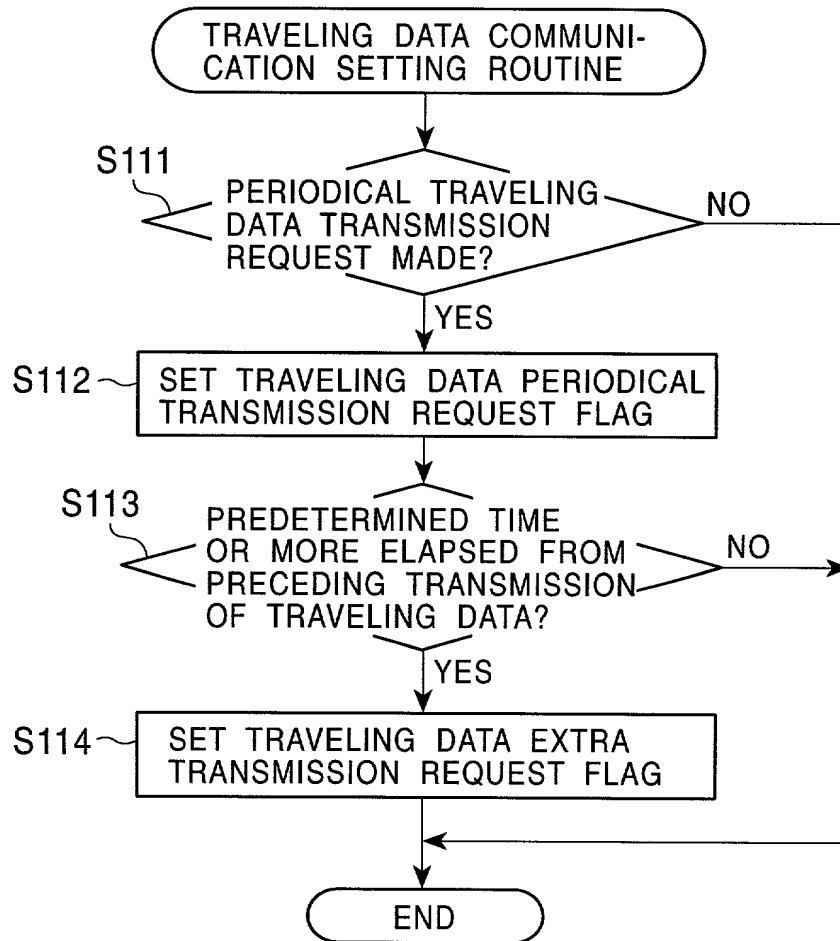
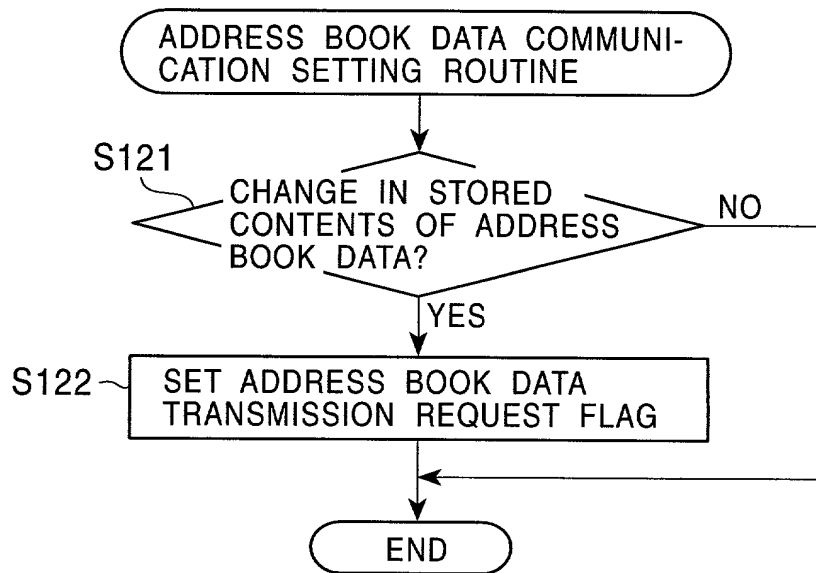


FIG. 18



09961282.123104

FIG. 19



09961282.123101
TOTAL: 223/260

FIG. 20

DEVICE OR SERVER TYPE	VEHICLE MANAGEMENT CENTER DEVICE	TRAVELING MANAGEMENT CENTER DEVICE	HOME SERVER	OFFICE SERVER	MUSIC DELIVERY CENTER DEVICE	EMERGENCY MESSAGE CENTER DEVICE
VEHICLE DATA	○	○	○	○	×	○
DRIVER DATA	○	○	○	○	○	○
MUSIC DATA	×	×	○	○	○	×
MAP DATA	×	○	○	○	×	○
TRAVELING DATA	○	○	○	×	×	○
ADDRESS BOOK DATA	×	×	○	○	×	×
EMERGENCY DATA	×	×	○	×	×	○

FIG. 21

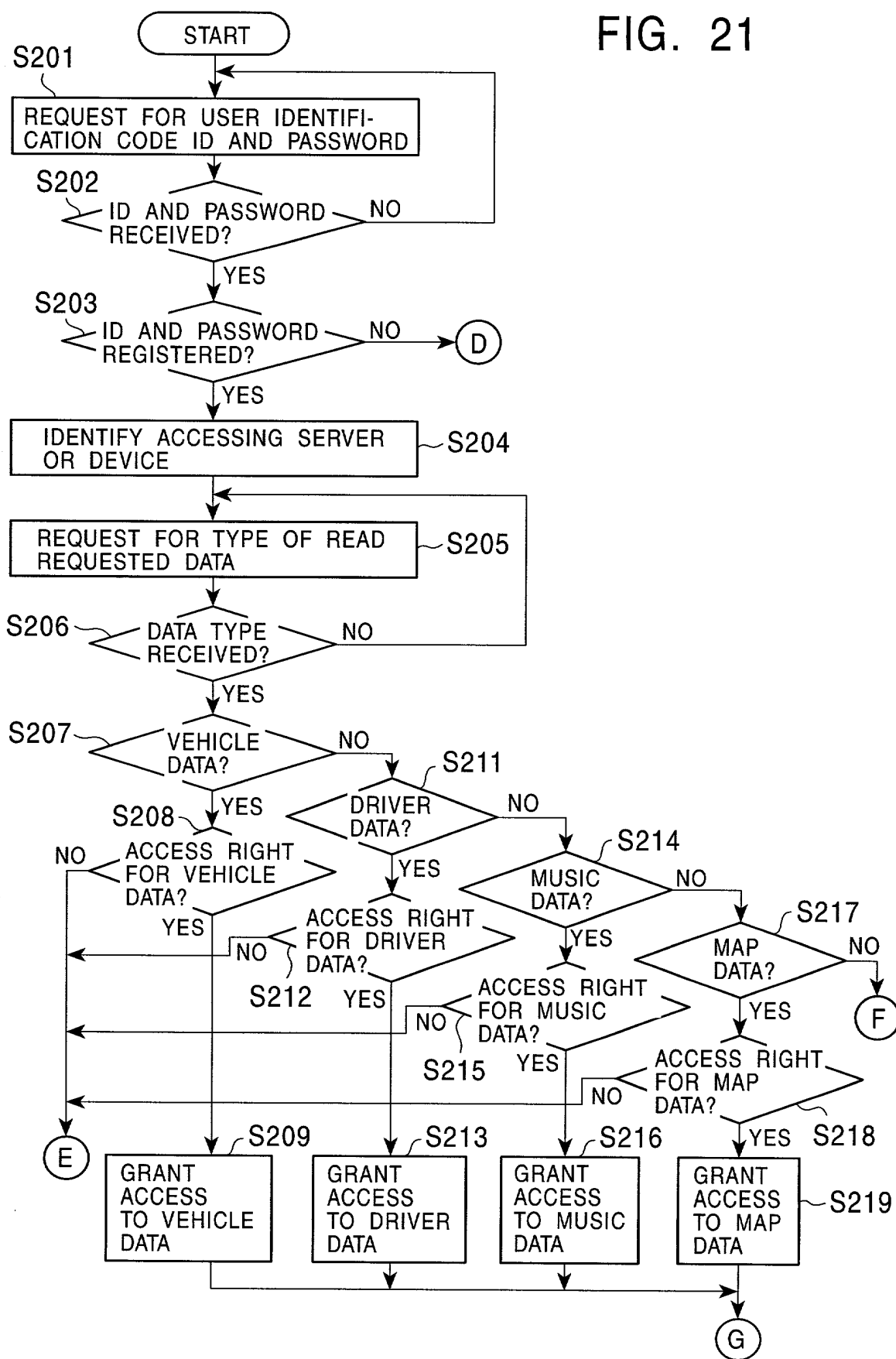


FIG. 22

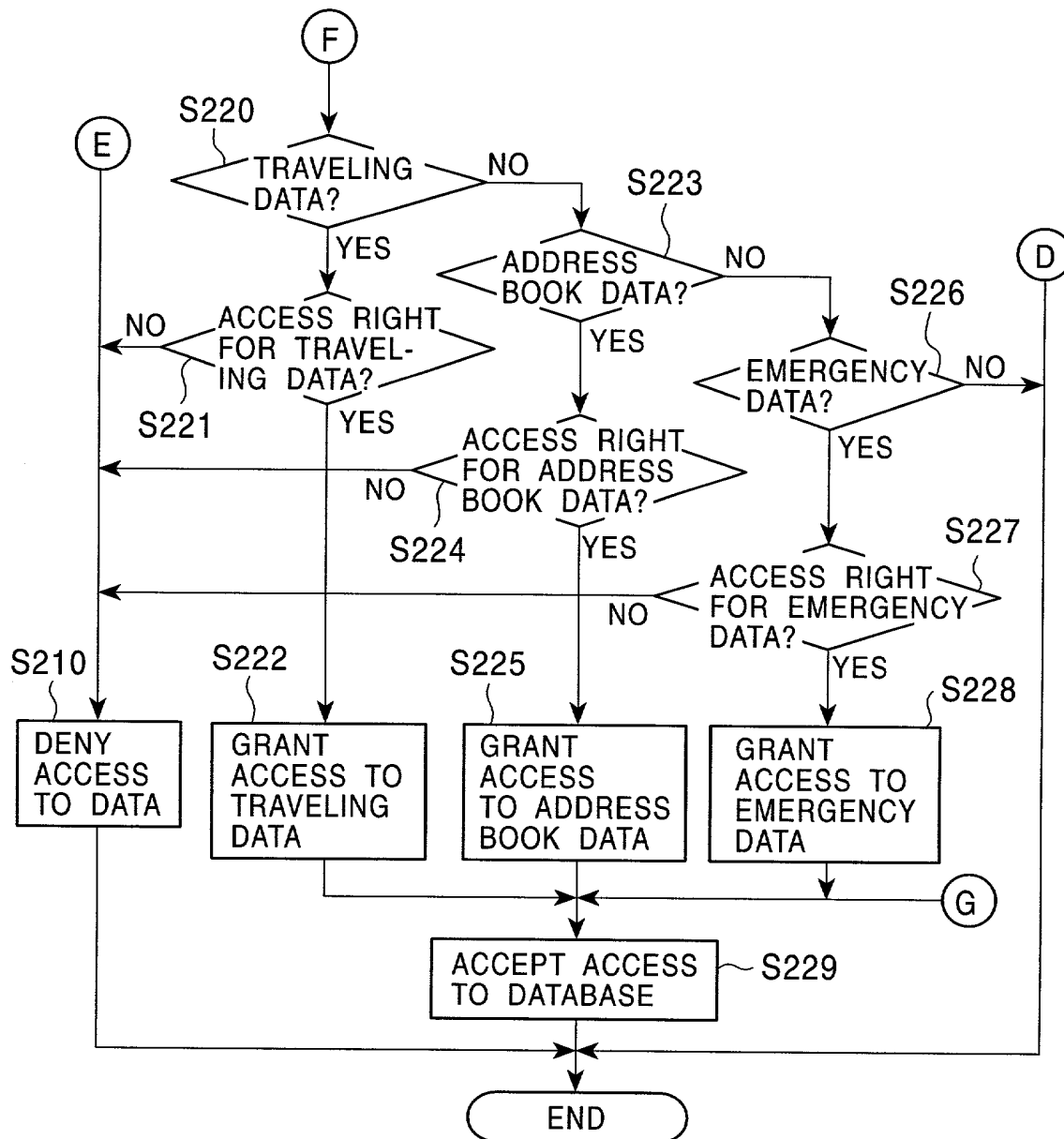


FIG. 23

USER GROUP TYPE	OWNER	FAMILY MEMBER	FRIEND	SECURITY COMPANY	POLICE	FIRE STATION	REPAIR SHOP
VEHICLE DATA	○	○	○	○	○	○	○
DRIVER DATA	○	○	○	○	×	○	×
MUSIC DATA	○	×	○	×	×	×	×
MAP DATA	○	○	○	○	○	×	×
TRAVELING DATA	○	○	×	×	×	×	○
ADDRESS BOOK DATA	○	×	×	×	×	×	×

FIG. 24

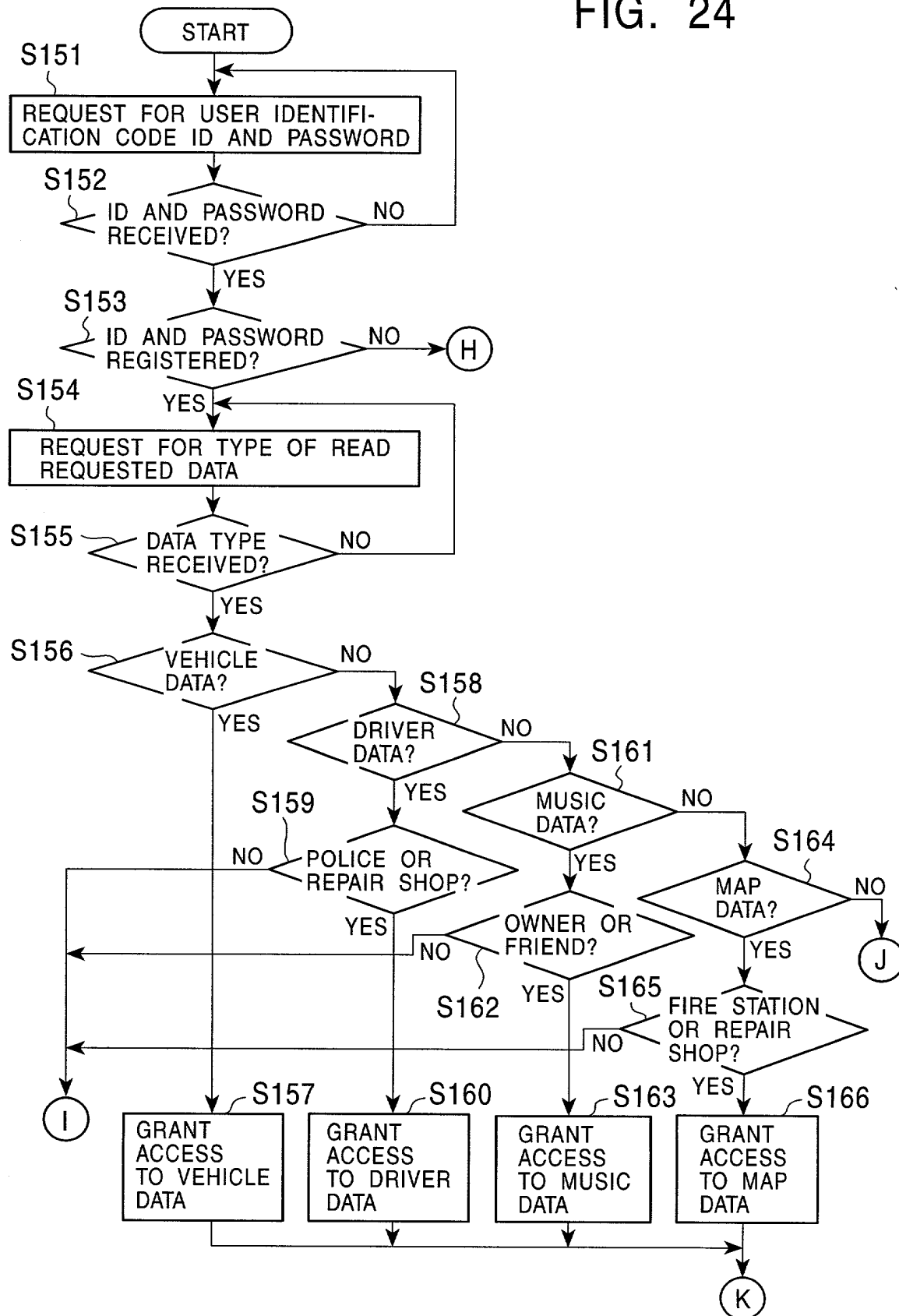


FIG. 25

